WHAT IS CLAIMED IS:

- 1. A process for the preparation of polyamines of the diphenylmethane series, comprising
- 5 a) reacting aniline and formaldehyde in the presence of an acid catalyst to form polyamines,

and

- b) neutralizing the reaction mixture with a base,
 wherein at least one alcohol is present during and/or after the neutralization step,
 with the molar ratio of said alcohol to said formaldehyde being at least 0.02:1.
 - 2. The process of Claim 1, wherein the neutralization of the reaction mixture occurs in the presence of said alcohol.
- 15 3. The process of Claim 2, wherein said alcohol is added at a point prior to neutralization.
 - 4. The process of Claim 3, wherein said alcohol is introduced with at least one of the starting reactants.

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- 5. The process of Claim 3, wherein said alcohol is directly added to the acid catalyzed reaction of aniline and formaldehyde.
- 6. The process of Claim 2, wherein said alcohol is added during the neutralization of the reaction mixture.
 - 7. The process of Claim 1, wherein said alcohol is added after neutralization of the reaction.
- 30 8. The process of Claim 1, additionally comprising
 - phase separating the neutralized reaction mixture,
 and

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- d) adding said alcohol and an additional quantity of a base to the organic phase.
- 9. The process of Claim 1, wherein the said base comprises anaqueous sodium hydroxide solution.
- The process of Claim 1, wherein said alcohol is selected from the group consisting of: methanol, ethanol, n-propanol, isopropanol, monoethanolamine, N-substituted derivatives of monoethanolamine,
 diethanolamine, N-substituted derivatives of diethanolamine, triethanolamine, and mixtures thereof.
 - 11. A process for the preparation of polyisocyanates of the diphenylmethane series comprising
 - a) reacting aniline and formaldehyde in the presence of an acid catalyst to form polyamines,
 - b) neutralizing the reaction mixture with a base, and
 - c) phosgenating the resultant polyamines into the corresponding polyisocyanates,

wherein at least one alcohol is present during and/or after the neutralization step with the molar ratio of said alcohol to said formaldehyde being at least 0.02:1.

- 12. The process of Claim 11, wherein the neutralization of the reaction 25 mixture occurs in the presence of said alcohol.
 - 13. The process of Claim 12, wherein said alcohol is added at a point prior to neutralization.
- 30 14. The process of Claim 13, wherein said alcohol is introduced with at least one of the starting reactants.

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- 15. The process of Claim 13, wherein said alcohol is directly added to the acid catalyzed reaction of aniline and formaldehyde.
- 16. The process of Claim 12, wherein said alcohol is added during theneutralization of the reaction mixture.
 - 17. The process of Claim 11, wherein said alcohol is added after neutralization of the reaction mixture.
- 10 18. The process of Claim 11, additionally comprising:
 - d) phase separating the neutralized reaction mixture,
 and
 - e) adding said alcohol and an additional quantity of a base to the organic phase, prior to said phosgenation.
 - 19. The process of Claim 11, wherein said base comprises an aqueous sodium hydroxide solution.
- 20. The process of Claim 11, wherein said alcohol is selected from the group consisting of: methanol, ethanol, n-propanol, isopropanol, monoethanolamine, N-substituted derivatives of monoethanolamine, diethanolamine, N-substituted derivatives of diethanolamine, triethanolamine, and mixtures thereof.